

## AR TA Assays Using CHO Cells

Reference	Bonefeld-Jorgensen et al. (2001)	Deckers et al. (2000)
<b>Characteristics of Cell Line</b>		
Name of cell line	CHO-K1	CHO-K1 clone 1G12-A5-CA
Cell source	Chinese hamster ovary	Chinese hamster ovary
<b>Transfection of Cells with Plasmids</b>		
Stable or transient tranfection	Transient AR/Transient reporter	Stable AR/Stable reporter
AR expression vector	pSVAR0	hAR-MMTV-LUC
AR source	human	human
Reporter vector	pMMTV-LUC	hAR-MMTV-LUC
Endpoint measured	Luciferase activity	Luciferase activity
Plasmid transfected for cell toxicity	none	none
Endpoint measured for cell toxicity	n.a.	n.a.
<b>Preparation of Cells for Assay</b>		
<i>Transient</i>	Cells treated with test compound just prior to transfection	
Pregrowth of cells before transient transfection	24 hours pregrowth before treatment with test substance and transfection	n.p.
Time from transient transfection to treatment of cells	n.a.	n.p.
<i>Stable</i>		
Plating time prior to treatment with test substance	n.a.	n.a.
<b>Transcriptional activation assay</b>		
Test substance solvent	Ethanol	Ethanol
No. of replicates	4	n.p.
No. of times assay repeated	3	from 1 to 30
Test substance incubation time	24 hours	16 hours
<b>Agonism assay</b>		
Reference ligand	Methyltrienolone	5 $\alpha$ -Dihydrotestosterone
Final concentration of reference ligand	100 nM	n.p.
<b>Antagonism assay</b>		
Reference ligand	Methyltrienolone	n.a.
Final concentration of reference ligand	0.1 nM	n.a.

Abbreviations: n.a. = not applicable;  
n.p. = not provided

## AR TA Assays Using CHO Cells

Reference	Deslypere et al. (1992)	Otsuka Pharmaceutical Co. (2001)
<b>Characteristics of Cell Line</b>		
Name of cell line	CHO	CHO-K1 (AR-EcoScreen™)
Cell source	Chinese hamster ovary	Chinese hamster ovary
<b>Transfection of Cells with Plasmids</b>		
Stable or transient transfection	Transient AR/Transient reporter	Stable AR/Stable reporter
AR expression vector	pCMV3.1.hAR	pZeoSV2AR
AR source	human	n.p.
Reporter vector	MMTV-CAT	pIND ARE B10
Endpoint measured	CAT activity	Luciferase activity
Plasmid transfected for cell toxicity	SV40-pCH110 ( -gal)	none
Endpoint measured for cell toxicity	-galactosidase activity	n.a.
<b>Preparation of Cells for Assay</b>		
<i>Transient</i>		
Pregrowth of cells before transient transfection	Within 24 hours	n.a.
Time from transient transfection to treatment of cells	24 hours	n.a.
<i>Stable</i>		
Plating time prior to treatment with test substance	n.a.	24 hours
<b>Transcriptional activation assay</b>		
Test substance solvent	n.p.	DMEM/F12 medium
No. of replicates	2	n.p.
No. of times assay repeated	1 to 12	n.p.
Test substance incubation time	12, 24, 36, 48 hours	24 hours
<b>Agonism assay</b>		
Reference ligand	Testosterone	5 $\alpha$ -Dihydrotestosterone
Final concentration of reference ligand	n.p.	.001 $\mu$ M
<b>Antagonism assay</b>		
Reference ligand	n.a.	5 $\alpha$ -Dihydrotestosterone
Final concentration of reference ligand	n.a.	n.p.

Abbreviations: n.a. = not applicable;  
n.p. = not provided

## AR TA Assays Using CHO Cells

Reference	Otsuka Pharmaceutical Co. (2001)	Vinggaard et al. (1999)
<b>Characteristics of Cell Line</b>		
Name of cell line	CHO-K1 (EcoScreen™ High throughput transfection assay)	CHO-K1
Cell source	Chinese hamster ovary	Chinese hamster ovary
<b>Transfection of Cells with Plasmids</b>		
Stable or transient tranfection	Transient AR/Transient reporter	Transient AR/Transient reporter
AR expression vector	pZeoSV2AR	pSVAR0
AR source	n.p.	human
Reporter vector	pIND ARE B10	MMTV-LUC
Endpoint measured	Luciferase activity	Luciferase activity
Plasmid transfected for cell toxicity	pcDNA-EGFP	none
Endpoint measured for cell toxicity	Fluorescence	n.a.
<b>Preparation of Cells for Assay</b>		
<i>Transient</i>		Cells treated with test compound just prior to transfection
Pregrowth of cells before transient transfection	24 hours	24 hours pregrowth before treatment with test substance and transfection
Time from transient transfection to treatment of cells	3 hours	n.p.
<i>Stable</i>		
Plating time prior to treatment with test substance	n.a.	n.a.
<b>Transcriptional activation assay</b>		
Test substance solvent	DMSO + culture medium	DMEM/F12 medium
No. of replicates	4	4
No. of times assay repeated	2	3 to 5
Test substance incubation time	16 to 24 hours	24 hours
<b>Agonism assay</b>		
Reference ligand	n.a.	Methyltrienolone
Final concentration of reference ligand	n.a.	n.p.
<b>Antagonism assay</b>		
Reference ligand	5 $\alpha$ -Dihydrotestosterone	Methyltrienolone
Final concentration of reference ligand	5 nM	0.1 nM

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## AR TA Assays Using CHO Cells

Reference	Vinggaard et al. (2000)
<b>Characteristics of Cell Line</b>	
Name of cell line	CHO-K1
Cell source	Chinese hamster ovary
<b>Transfection of Cells with Plasmids</b>	
Stable or transient transfection	Transient AR/Transient reporter
AR expression vector	pSVAR0
AR source	human
Reporter vector	MMTV-LUC
Endpoint measured	Luciferase activity
Plasmid transfected for cell toxicity	none
Endpoint measured for cell toxicity	n.a.
<b>Preparation of Cells for Assay</b>	
<i>Transient</i>	Cells treated with test compound just prior to transfection
Pregrowth of cells before transient transfection	24 hours pregrowth before treatment with test substance and transfection
Time from transient transfection to treatment of cells	n.p.
<i>Stable</i>	
Plating time prior to treatment with test substance	n.a.
<b>Transcriptional activation assay</b>	
Test substance solvent	DMEM/F12 medium
No. of replicates	4
No. of times assay repeated	3
Test substance incubation time	24 hours
<b>Agonism assay</b>	
Reference ligand	Methyltrienolone
Final concentration of reference ligand	n.p.
<b>Antagonism assay</b>	
Reference ligand	Methyltrienolone
Final concentration of reference ligand	0.1 nM

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